



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

401-02B

Bureau of Nonpoint Pollution Control

Division of Water Quality

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http://www.state.nj.us/dep/dwq/bnpc_home.htm

August 31, 2011

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

BOB MARTIN
Commissioner

Derek Berg
200 Enterprise Drive
Scarborough, ME 04074

Re: MTD Laboratory Test Certification for the Media Filtration Systems by CONTECH
Construction Products, Inc.

Effective Date: September 1, 2011

Expiration Date: September 1, 2013

TSS Removal Rate: 80%

Dear Mr. Berg:

The Stormwater Management Rules at N.J.A.C. 7:8 allow the use of manufactured treatment devices (MTDs) for compliance with the design and performance standards provided that the pollutant removal rates have been verified by New Jersey Corporation for Advanced Technology, NJCAT, and certified by the New Jersey Department of Environmental Protection (NJDEP).

The certification process was revised through the "Transition for Manufactured Treatment Devices," dated July 15, 2011. NJDEP has determined that Media Filtration Systems by CONTECH Construction Products, Inc. is consistent with the criteria under *A. Manufactured Treatment Devices with Interim Certifications*. Therefore, **NJDEP certifies the use of the 22-inch tall filtration cartridge of the Media Filtration Systems by CONTECH Construction Products, Inc. using a coarse perlite media with an 80% TSS removal rate, provided that the project design is consistent with the following conditions:**

1. The various models and associated water quality flow capacities shall be sized for the peak flow of the New Jersey Water Quality Design Storm per N.J.A.C. 7:8-5.
2. The peak inflow of the Water Quality Design Storm is limited to 0.04 cfs per cartridge. The maximum inflow area per cartridge is limited to 0.13 acres of impervious area.

3. The system must be designed to ensure that the draindown time for the Water Quality Design Storm does not exceed thirty-six (36) hours.
4. The bottom of the Media Filtration System cartridges must be a minimum of 18 inches above the bottom of the vault.
5. The Media Filtration Systems is certified as an off-line system. Any flow above the New Jersey Water Quality Design Storm must be bypassed around the system.
6. This certification does not extend to the enhanced removal rates under N.J.A.C. 7:8 – 5.5 through the addition of settling chambers (such as hydrodynamic separators) or media filtration practices (such as a sand filter).
7. The maintenance plan for the sites using this device shall incorporate at a minimum, the maintenance requirements for the Media Filtration Systems shown attached.

In addition to the attached, any project with a Stormwater BMP subject to the Stormwater Management Rules, N.J.A.C. 7:8, must include a detailed maintenance plan. The detailed maintenance plan must include all of the items identified in Stormwater Management Rules, N.J.A.C. 7:8-5.8. Such items include, but are not limited to, the list of inspection and maintenance equipment and tools, specific corrective and preventative maintenance tasks, indication of problems in the system, and training of maintenance personnel. Additional information can be found in Chapter 8: Maintenance of the New Jersey Stormwater Best Management Manual.

NJDEP anticipates proposing further adjustments to this process through the readoption of the Stormwater Management Rules. Additional information regarding the implementation of the Stormwater Management Rules, N.J.A.C. 7:8, are available at www.njstormwater.org. If you have any questions regarding the above information, please contact Ms. Sandra Blick of my office at (609) 633-7021.

Sincerely,



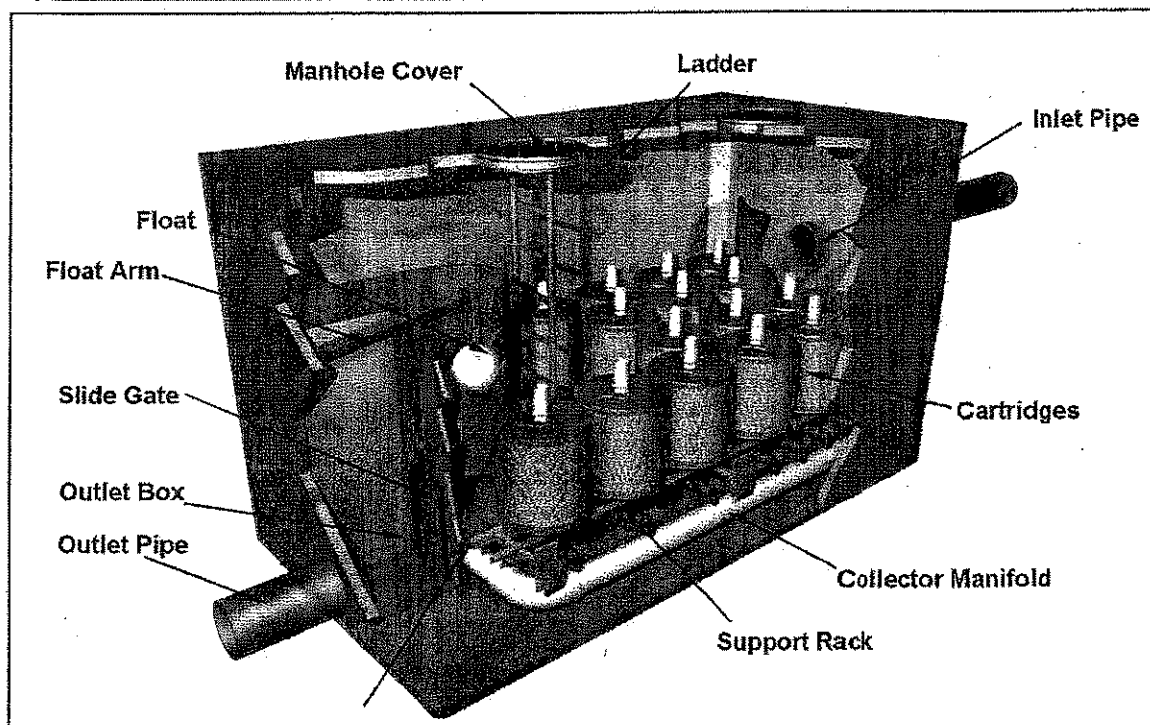
Ed Frankel, P.P., Acting Bureau Chief
Bureau of Nonpoint Pollution Control

C: Richard S. Magee, NJCAT
Chron file

Appendix A: Maintenance Requirements for Contech Stormwater Solutions Media Filtration System

Effective performance of stormwater management best management practices requires regular and proper maintenance. Chapter 8 of the New Jersey Stormwater Best Management Practices Manual and N.J.A.C. 7:8-5.8 of the Stormwater Management rules provides additional information and requirements for preparing a maintenance plan for stormwater management facilities. Specific maintenance requirements for the Media Filtration System by Contech Stormwater Solutions are presented below. These requirements must be included in the stormwater management system's maintenance plan in order to achieve the TSS removal rate associated with this manufactured treatment device.

Media Filtration System Schematic



A. General Maintenance

The person responsible for maintenance must evaluate the effectiveness of the maintenance plan at least once a year. Any changes to the maintenance plan must be sent to the review agency with associated justification and revised in the deed.

Any and all stormwater management system components expected to receive and/or trap debris and sediment must be inspected for clogging and excessive debris, sediment, and oil accumulation at least four times annually as well as after every storm exceeding 1 inch of

rainfall. Such components may include, but is not limited to, bottom of chamber, filters, pipes, trash racks, and cleanouts.

Inspections are performed from the ground surface through access ports are located in the top of the manhole to facilitate inspection and maintenance. Equipment for the inspection (such as a flashlight, gloves, manhole hook, safety cones and probes to measure the depths of oil and sediment) and for the removal of sediment must be specified by the design engineer in the maintenance plan.

The Media Filtration is a confined space. Enter only when necessary and with the proper equipment, following OSHA confined space entry regulations.

The sediment and debris must be removed at or before the average depth of sediment and/or trash reaches nine (9) inches above the bottom of the system. Disposal of debris, trash, sediment, and other waste material must be done at suitable disposal/recycling sites and in compliance with all applicable local, state, and federal waste regulations.

All filter cartridges must be replaced at a minimum of once every year.

B. Minimum Equipment Requirements

At a minimum, a vacuum truck is necessary for the maintenance of these units.

C. Structural Components

All structural components must be inspected for cracking, subsidence, spalling, erosion, and deterioration at least annually.

D. Replacement Parts

Certain components of this device are only available through the manufacturer in order to achieve the TSS removal certified by the Department. These components include the MFS filter cartridges and float arms, and can be ordered by contacting:

Contech Stormwater Solutions
(800) 925-2540
www.contechstormwater.com

In addition to the above, the detailed maintenance plan must include all of the items identified in Chapter 8: Maintenance of the New Jersey Stormwater Best Management Manual. Such items include, but are not limited to, the list of inspection and maintenance equipment and tools, specific corrective and preventative maintenance tasks, indication of problems in the system, and training of maintenance personnel. Additional operation and maintenance information associated with this manufactured treatment device is available from the vendor to assist in the development of a complete maintenance plan.